

# NITE-TIMES news

CHICAGO AREA TIMEX USERS GROUP

Chicago Area Timex Users Group Volume 8, Number 2

Downers Brove, Illinois

March/April 1994

#### MEMORY MAP ROUTINES **ADDRESS** CATUG Club Officers ......1 nite-times Information ......2 Contributors to this Issue ......2 Club Meetings ......2 Treasury Notes .....2 Secretary's NotePad .....2 INPUT/OUTPUT .....4 GATOR's Twisted Pair (Our BBS) .....4 Items for SALE through the Club .....4 Special Deals and Buys .....5 Articles: Undocumented feature of QLuMSi DOS v4.30 ..4 KEYBOARD MANIA - Part 7 .....6 Can-U-C-3D? .....11

#### C.A.T.U.G. CLUB OFFICERS

Here is the list of 1994 club officers and how to contact them. The club has two strong SIGS, SPECTRUM/TS2068 and QL. If you have questions about either of these fine machines, or even the ZX81/TS1000/TS1500, call one of the officers. C=312, S=708.

POSITION	NAME	PHONE	PRIMARY FUNCTION
President Vice-President	Nazir Pashtoon	S439-1679	The buck stops here
		5968-3553	Meeting Planning, etc.
Secretary	Larry Sauter	C763-5383	Records and Reporting
Treasurer	Frank Mills	S544-1918	Dues and Purchasing
Editor	Bob Swoger	S576-8068	Newsletter, BBS, etc.

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#### NITE-TIMES NEWS

## Nite-Times Information

The Nite-Times News is the newsletter of the Chicago Area at 1300 Maple Street in Downers Timex Users Group. For an Grove just 2 blocks southwest annual fee of \$12.00 you can of the Downers Grove Public become a CATUG member and Library. Steve should always be receive six newsletters each year. Write your check payable 3553 to confirm the meeting year. Write your check payable

FRANK MILLS 417 S 47th AVE BELLWOOD IL 60104

The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting user groups at no charge. Send all newsletter requests to:

CATUG EDITOR BOB SWOGER 613 PARKSIDE CIRCLE STREAMWOOD IL 60107-1647

We encourage your user group to copy this newsletter and distribute it at your regular meetings to your members free

Articles originating from our group may be downloaded from our BBS and reprinted.

#### CONTRIBUTORS TO THIS ISSUE \_\_\_\_\_

Cedric Bastiaans Frank Mills Larry Sauter Bob Swoger, K9WVY

#### CLUB MEETINGS

The Chicago Area Timex Users Group meets on the THIRD Saturday of each month at the home of our meeting coordinator

Steve Cooper in Downers Grove, Illinois from 1:00 to 5:00 PM. Steve's home is lovingly called the CLUB HOUSE and is located 3553 to confirm the meeting schedule.

#### TREASURY NOTES

The balance as of May 1, 1994 is \$364.43 Our current paid membership stands at 19.

Frank Mills, Treasurer Chicago Area Timex Users Group

### SECRETARY'S NotePad

March 19, 1994

If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter.

Meeting began at approximately 2:30 P.M. Members present: Nazir Pashtoon, Steve Cooper, author and this newsletter.

Frank Mills, Larry Sauter, Abed Kahale, Jeff De Courtney, Cy Herre, John Donaldson, and Bob Swoger.

meetings to your members free of any charge as we believe that this will encourage better meeting attendance. If you are a user group that feels as we do, please let us know in your newsletter so that we might do this for our members and keep our attendance up.

Discussion about wnat ZAII OLIVE Alive! would do to inform members of their membership dues status. Adding an expiration date to the label for mailing, and in the software (mailing list), of the amount of time left of the subscription for the newsletter. newsletter.

> A disc was received from Al Feng called "QLamber". John Donaldson had an unfavorable review of the program because of a bug caused by incorrect operating system compatibility.

> Nazir brought up the possibility of duplicating the Larry Kenny disc drive interface, and the difficulty of getting parts that will work with repeatability in a small production run.

A discussion about a person by the name of Jelen who replaced the components on the 2068 with CMOS components including the SCLD chip with CMOS parts to promote efficiency of operation that Abed received in a letter from Don Lambert.

The same fellow said he tried to solve the QL heat problem which Nazir Pashtoon states is a phony problem that has been around since the inception of the QL machine by some of the development engineers who couldn't explain possible part incompatibility problems that the machine was plagued with, because there are really two different problems mistakenly lumped together as a heat problem.

There was further discussion about tacking our newsletter onto ZXir QLive Alive! to reduce expenses of mailing and printing and possibly getting more newsletter readers and helping ZXir QLive Alive!, stay alive because of dwindling revenue in ZQA! Maybe there is a need for a selection between ordering all the issues in a year as one volume. or getting issues from the date of subscription to one year after ordering. Maybe ZQA! should run the subscription like UPDATE! runs their subscriptions, ending in a fiscal year.

A further discussion about our newsletter being slightly delinquent in getting issues out in time. Maybe we should put a list of the members who have paid up their dues for the newsletter to promote punctuality of paid up members.

A discussion about our newsletter being the first one to start off the tacking on to ZXir QLive Alive! newsletter and maybe some of the other newsletters will pick up the practice. We should mail a letter to all the other groups to see if they could see the convenience of consolidating the mailing of newsletters.

A vote was taken and passed with one NAY vote by Nazir Pashtoon to tack on the newsletter to ZQA!. A motion was taken to adjourn the meeting, so till next month.

#### April 23, 1994

Meeting began at approximately 2:30 P.M. Members present were: Jeff De Courtney, Cy Herre, Larry Sauter, Steve Cooper, Bob Swoger, Abed Kahale, Nazir Pashtoon, Frank Mills.

A misunderstanding about the merger (tack on) of Nite-Times News and ZXir QLive Alive! was discussed and Bob explained that he did not mean a merger of the two newsletter. Nazir now understands that a merger was not intended and only a mailing of our newsletter in the same envelope with ZXir QLive Alive!

To decrease postage expenses and printing time and expenses was the intention. Do we really save money or not? Just the Nite-Times News gets mailed to the out-of-town people. Other newsletters don't get mailed to the out-of-town members. If you want those other out-of-town newsletters, you have to come to the meetings at Steve Cooper's home.

Gary Lessenberry may be returning in the not too distant future and settling down in the Chicago area. We will always welcome a former member and contributor to the group and also former president of the Chicago Area Timex Users Group.

Steve's monitor blew a fuse and after putting a light bulb in series with the line cord the short cleared itself and all is well with his monitor after a make shift fuse was made by Bob.

We no longer are receiving newsletters from NESQLUG, ISTUG, SMUG, Capital Area NY.

John Donaldson sent Abed a copy of the QL public domain

SNUG members giving them a choice to receive UPDATE!,
IQLR, T/SNUG, donate to T/SNUG,
or get a prorated check. (Or,
get Hustler magazine. Ha Ha
Ha!) The meeting was adjourned.
See you next month.

GATOR'S TWISTED PAIR
!!! REMEMBER!!!
We have a 24 hour BBS and
encourage you to exchange mail
and contribute to the Download

Larry Sauter, Secretary Chicago Area Timex Users Group

#### INPUT/OUTPUT ~~~~~~~~~~~~~~~~

Dave Lebowitz writes: Enjoyed reading the copies of Nite-Times News you forwarded to me recently. Even though I'm not Bob Swoger, SYSOP an active CATUG member (or even Chicago Area Timex Users Group an active T/S user) anymore, I still enjoy reading about TEMS FOR SALE THROUGH THE CLUB what's going on.

Spectral Writer was part of the bundled software that came with the Rotronics Wafadrive an English product that was designed to be used with the Spectrum. The Wafadrive was a two drive system that utilized

We will not be mailing our newsletter to these groups because we haven't received a newsletter from them for over a year.

very small tape cassettes. I still own two of these devices and had a lot of fun using them - although they did tend to be a bit unreliable as one could easily lose data due to stretching of the tapes.

of the QL public domain library's contents. Paul Holmgren through Don Lambert sent 9 QL discs to Abed to be sold as public domain for \$9.00. The proceeds less expenses to be given to ZXir QLive Alive! Abed mailed the disks to John Donaldson who is now the QL librarian of ZQA!

Don Lambert sent Abed a package and a list of SNUG membership. Abed was given the task of sending out postcards to the SNUG members giving them a

Section. Use it and have fun!

Call the BBS at 708-632-5558 and register. On your next call your security level will be increased to 5 on this RBBS and you will be able to have most privileges.

### 

If you are a Larken LKDOS owner and would like a SPECTRUM the January/February issue. The Secretary's NotePad column mentioned a "new" word processor called Spectral Writer and extolled its virtues. I thought I'd provide a bit of background on that product for those who might not know about it.

If you are a Larken LKDOS owner and would like a SPECTRUM v2 kit for your system we will supply an EPROM, socket and 74HCT32 for \$12 which includes shipping and handling. The install instructions are in your Larken manual. We shall not be responsible for your install job. AERCO owners need only the SPECTRUM EPROM for \$10 only the SPECTRUM EPROM for \$10 \_\_\_\_\_

If you have a mismatch between you Larken DOS EPROM and your Western Digital Controller chip, we will send you the correct one for free on behalf of our friends Rod Gowen of RMG and Larry Kenny of Larken. You

should be using L3 EPROMs with Trying to WDELete a specific WD1770 controller chips or L3F (empty) sub-DIRectory proved FPROMs with WD1772 controller fruitless. chips. Check it out! Call in requests to Bob Swoger at W708-576-8068 H708-837-7957

#### SPECIAL DEALS AND BUYS

NAP\_Ware (Nazir A. Pashtoon's new endeavor) announces the availability of all Timex or QL PAL (Programmable Array Logic) chips. If interested, call him or particles on 708-439-1679.

desired effect.

The 'RD \' command, therefore, utilizes QDOS's WDEL command, and the user defines the sub-DIRectory by direct input and or particles on 708-439-1679.

## ARTICLES

A Previously Undocumented Feature in QLuMSi DOS v4.30 by Al Feng

As many of you know, Version 4 of the QLuMSi program has added the following commands:

CD \

sub-DIRectories.

with the FLP/RAM (and, this is true for GOLD CARD documentation, as far as I can tell), but the only way that I could figure out how to REMOVE a sub-DIRectory was with the WDELete command; and, this I determined by accident!

Now, at first, I would WDELete through the entire directory. This was, often, tedious.

At some point, I either had a typo or a serendipitous moment, and I realized that I might be able to input an incomplete filename \$tring and get the

> can be used within QLuMSi (v4.30) for designating a specific string.

> For example, if you were to input:

> > RD \.doc

QLuMSi would then ask you if you wanted to WDELete all the \_doc files. QLuMSi will also prompt you for other "\_do()" files. Obviously, some caution must be employed by the user!

CD \[Sub-DIRectory\_prefix] Both the "full" version of the MD \[Sub-DIRectory\_prefix] QLuMSi program as well as version 4 of the COMMAND\_COM program require that your QL has the MAKE\_DIR command available to it in addition to the traditional TK2\_EXT code.

The problem arises when you decide you know longer wish to have the sub-DIRectory on the medium. It just doesn't seem that easy to get rid of.

To accommodate those who either do not have a QXL, GOLD CARD, or FLP/RAM chip, a version of the new QLuMSi program has been included which does NOT require MAKE\_DIR (hence, will not allow Maybe it was obvious to the people at MIRACLE, or maybe I didn't read the documentation well enough that I received with the FLP/RAM (and this is the BOOT ALT).

Send comments/questions/queries

Al Feng 914 Rio Vista Circle SW Albuquerque, NM 87105 U.S.A.

KEYBOARD MANIA - Part

\*

By Cedric R. Bastiaans ©

Page D

### XIII. A POTPOURRI OF ITEMS OF INTEREST

### XIII.1 YET ANOTHER SURPLUS TI KEYBOARD

At the time that I'm writing this (end of May '86), Radio Shack has yet another special purchase item (Cat. No. 277-1023), again a surplus TI keyboard.

This is reported to be a keyboard for the TI 99/4 (without the addition A).

Even though it has the same matrix (Fig. 9 of Part 3) as the other TI KB's, and it will fit inside the 2068 case, whether it has the cutouts of Figure 14 or 23, it would not be feasible to modify for use with our TS2068!

The reason: it is a membrane type keyboard! A real pity, since this item only costs \$3.75...

You couldn't even consider this keyboard for spare parts; keyswitches and keytops are different from those of any of the three keyboard versions I know of.

Maybe some day, someone can come up with the proper translation circuitry to transform the TI-99/4A matrix to the TS2068 matrix and put it on an EPROM. However, we may run into a problem with certain simultaneous key-stroke commands, such as the the combination G and H keys to restart "Horace Goes Ski-ing".

#### XIII.2 THE BALSAWOOD MASK

Another item, which appears to puzzle some of you, is the mask, which covers up the ugly holes around the TI KB you have put in.

Figure 24 shows an exploded view of the 11 components. Dimensions are given in MILLIMETRES (mm), but these are ONLY MEANT AS A GUIDE. Before cutting each part, check the sizes you actually need for your particular KB. There are some dimensional differences between KB's!

The modified keyboard should be in place.

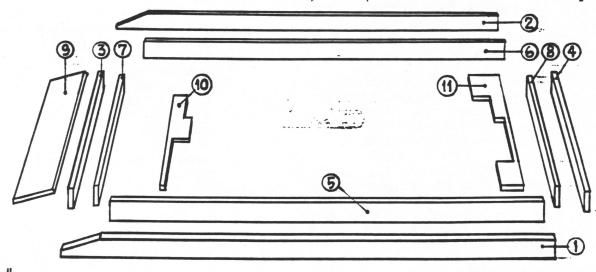
Cut the 1/8 inch balsawood ONLY with a #11 Xacto blade. Don't use any type of saw!

Use a fast-cure two-component Epoxy adhesive to stick the wood parts to the metal mounting brackets.

Use Elmer's Professional Carpenter's Wood Glue to glue wood to wood.

USE WAX PAPER BETWEEN THE MASK AND THE COMPUTER CASE, to prevent it from

together.



 $1=2=260 \times 10 \times 240$  $3=4=102 \times 10$ 

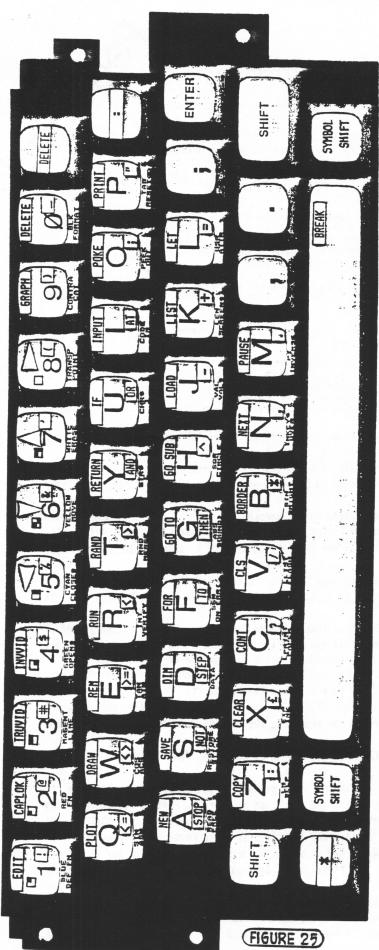
 $5=6=234 \times 11$ 

 $7=8=96 \times 11$ 

9= 102 x 22, shape to fit 10= 76 long: 11= 96 long; 19

USE 1/8 INCH BALSAWOOD THROUGHOUT DIMENSIONS IN an, but are approx.

(FIGURE 24)



XIII.3 MULTI-PIN HEADER STRIPS
It seems that some people have a problem locating these and it might help if they knew what these components look like. Well, here is a picture of a 7-pin header strip.

XIII.4 THE TI KEYBOARD "MAKE-OVER"
Figure 25 on the left shows a full-size photograph of a completed keyboard with all of the printed keytops as discussed in section XI.3 of Part 5.

Compare these with the original keyboard of your TS2068 and see if it doesn't make a lot more sense. I suggest that you read sections XI.1.1 through XI.1.5 again so as to fully understand my philosophy.

Another tip: in order to make for surprisingly durable keytops, using the printed labels, it is important that you use a good brand clear spray, applied in many layers. I have had good luck with Red Devil High Gloss Clear Lacquer. It is an extra fast drying spray and has an adjustable nozzle. Adjust it for a HORIZONTAL spray pattern.

Never spray the keytops while they are in place. Remove them, make sure that the labels have been properly burnished and align the keys on a piece of sturdy corrugated cardboard in 5 rows, leaving about one keytop width all around each key.

USE DOUBLE-ADHESIVE TAPE to prevent the keys from shifting about.

Spray in a dustfree environment and spray in slightly overlapping vertical movements.

Turn the cardboard substrate 90 degrees and spray again. Repeat this two more times and allow to dry for several hours. Repeat the entire process one more time. When you're all done, the top surface of each key has had 8 coats and each vertical surface has had 2. Right?

This concludes my Keyboard Mania series. I hope that it gave you the impetus to try your hand on a worthwhile hardware project! I would appreciate hearing from you. Good luck!

4-30-86

5w 43

zeoders 5W 32

Have enjoyed you article Keyboard Mania - especially part 3. In Pact I just received my TI keyboard. And in reviewing your instructions I find some problems.

My kayboard is#1039019-1, but does not have a "recessed" PCB nor and Mention of a Manufacture, Further, I find the section on cutting confusing.

If I hold the Keybd w/ the ribbon cable on top (i.e. Facing  $m{\phi})\sqrt{t} \leq$ I run into some problems. Sw. 45 better b@ jumpered or I'll lose other keys. SW. 11 has 2 solder pads and 2 lines in and out. Which "bottom trace" - Teft, right or both? "Upper trace" on both sides - do you mean both traces?

شهر 32 has 3 pads — 2 side by side and a 3rd off to the side. • Which pad is the top pad? Sw. 22 ditto. Sw. 42 only has one trace coming off the bottom pad (assuming the keubd is oriented correctly). How can one cut one trace on both sides? only has one bottom trace and it is the major one!

Sw. 35's upper pad is linked to Sw. 23. Makes me think I have The keubd oriented wrong. But if I rotate it them the ribbon cable is on the bottom, not the top.

Almost all the other switches have similar problem. Further, your drawing of the TI matrix has the Alpha Lock on top - my keubd has it on the bottom.

I'll not out until I get the next issue of LIST, but I think that you need to clarify your instructions a bit more especially if there are more than one kind of Keyboard out there. Looking forward to your reply - or mention of it in the article, etc.

In Page A of Part 3 I have clearly identified TWO Texas Instruments TI-99/4A Keyboards, both of foreign make. US law requires that all imported goods be properly identified as to the country of manufacture.

Therefore, if your TI keyboard does not have any such indication, it simply means that it was made here in the USA. It is very unfortunate that your keyboard shows the same 1039019-1 number as the ALPS-made KB, which has - contrary to your KB - a recessed PCB.

More than 2 1/2 months ago, I wrote to Texas Instruments for clarification on all versions of their TI-99/4A keyboard, even though I had no intention of trying to modify ALL of such versions for inclusion in the TS 2068 computer case. After all, who has the time or the money for such a mammoth project. I just wanted the information so that I could advise people with questions, just like you. II has elected not to answer my letter.

Anyway, it should be clear that the trace cutting instructions given in page C of Part 3 do not apply to your particular KB. I clearly indicated in line 11 of page A, Part 3, that the procedures to be described were only for the KB in question, the ALPS KB, made in Japan, with a recessed PCB.

No wonder then, that you could not make head nor tail of my trace cutting instructions. Once again, they don't apply! And I can certainly not comment on the descriptions with the illustrations that you gave in your letter. All I can say is, that they have also no relation to the SE-JIN KB (made in Korea), full instructions of which will follow at a later date.

As to your remark about the matrix drawing showing the Alpha Lock on the top. The matrix is a SCHEMATIC depiction of wiring, printed circuit or point-to-point. It is drawn for maximum CLARITY and in most cases has little to do with the physical layout of the components. Look at the keys in the matrix, marked /,=,;,EN,SP,FN,CT and SH. These too are not depicted according to their physical layout; and you can maybe imagine yourself how confusing the matrix would have become, if indeed they had been!

Concluding, there is nothing for me to add to the already VERY CLEAR instructions in my Keyboard Mania series. They just don't apply to your keyboard. I'm sorry.

All I can do, is point out to you that with the help of Figures 9 and 10 on Page B of Part 3, you should really be able to find out which traces to cut and where to put jumpers. Figure 9 shows you the situation on your KB, whereas Figure 10 shows you what it should become. Since you appear to have some misconceptions about matrices, maybe I should tell you that if on Figure 9, I have indicated that key I is connected to key A, that it need not in actuality be so connected! Depending on how the traces on the KB are laid out, key I may be connected to key Q, or key 1, or key 0, or key P, or key; or key / or it may indeed be connected to key A! What REALLY matters is that all of these keys are on one side of their contacts, ULTIMATELY CONNECTED to pin 8T of the 15-pin ribbon connector!

A final word: you don't have to worry about the 29 keys depicted in thin blocks in Figure 10; these are already properly connected. However, sometimes one or more of these keys get inadvertantly disconnected from their address or KBD lines, because of the trace cuts necessary for the matrix modifications of the other keys! A jumper to the appropriate point(s) will correct such situations.

Thank you for your interest in my article series and I hope that you will persist and eventually solve the matrix puzzle and build the TI KB into your 2068. It is really worth the trouble... -Cedric-

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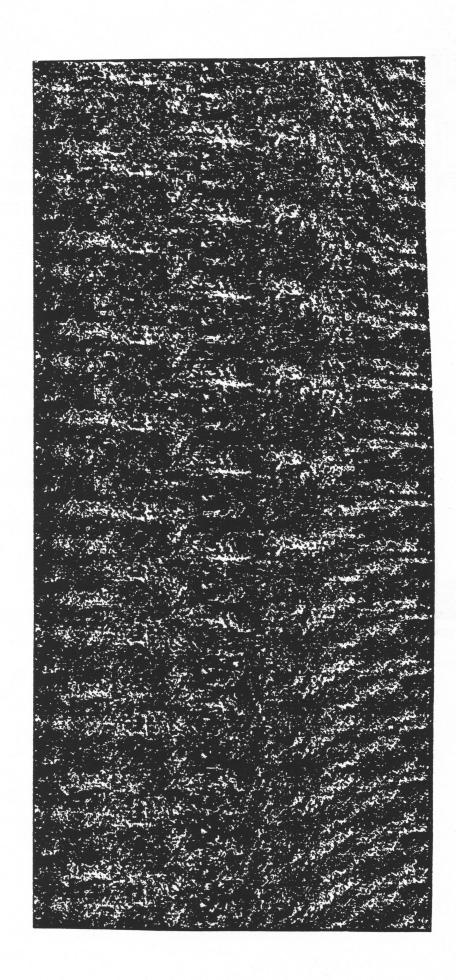
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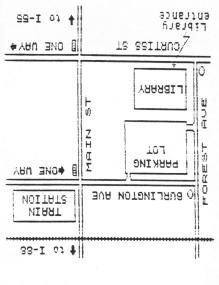
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BARRY 708-742-7775

FOR SALE and V.21 recommendations. (That Both these machines are surplus means it does a good job). \$30 to my needs as I own two other gets it. Includes DOS software and everything to hookup. Mark Hall hallmark@netcom.com

(214)262 - 8320







CHICAGO AREA TIMEX USERS GROUP 613 PARKSIDE CIRCLE STREAMWOOD, ILLINOIS 60107

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